

ABSTRACT OF THE DISCLOSURE

**APPARATUS AND METHOD OF DYNAMICALLY REPARTITIONING A
COMPUTER SYSTEM IN RESPONSE TO PARTITION WORKLOADS**

5

A method, system and apparatus for dynamically
repartitioning a partitioned computer system in response to
10 workload demands are provided. In one embodiment, a
monitoring software is used to monitor workloads on all
resources in all the partitions. If a workload on a
resource in a partition is determined to exceed a maximum
threshold, a similar resource is allocated to the partition.
15 The similar resource is preferentially an unassigned or
unallocated resource. However, resources from other
partitions may also be used. In another embodiment, a
workload schedule is stored in a workload profile. If a
scheduled workload in any of the resources of a partition is
20 to exceed a maximum threshold, additional similar resources
will be allocated to the partition before the scheduled
workload.